

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

( Not for submission under 37 CFR 1.99)

Application Number		10684138
Filing Date		2003-10-10
First Named Inventor	Peter T. Barrett	
Art Unit	2614	
Examiner Name		
Attorney Docket Number	MS1-1758US	

**U.S. PATENTS**

Examiner Initial*	Cite No	Patent Number	Kind Code <sup>1</sup>	Issue Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
	1	5461415		1995-10-24	Wolf, et al.	
	2	5473362		1995-12-05	Fitzgerald, et al.	
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	4	5631694		1997-05-20	Aggarwal, et al.	
	5	5695362		1997-12-16	Makam	
	6	5684141		1999-03-16	Inoue, et al.	
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	8	6047317		2000-04-04	Bisdikian, et al.	

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9	6078594		2000-06-20	Anderson, et al.	
10	6116498		2000-09-12	Reitmeyer	
11	6138147		2000-10-24	Weaver, et al.	
12	6222482		2001-04-24	Guezlec	
13	6266617		2001-07-24	Chaddha	
14	6330286		2001-12-11	Lyons, et al.	
15	6430647		2002-08-06	Busche, et al.	
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19	6609149		2003-08-19	Benders, et al.	

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20	6615133		2003-09-02	Boies, et al.	
21	6721952		2004-04-13	Guedalia, et al.	
22	6751626		2004-06-15	Brown, et al.	
23	6766245		2004-07-20	Padmanabhan	
24	6842724		2005-01-11	Lou, et al.	
25	6856759		2005-02-15	Fukuda, et al.	

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**U.S. PATENT APPLICATION PUBLICATIONS**

Examiner Initial*	Cite No	Publication Number	Kind Code <sup>1</sup>	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
	1	20020108119	A1	2002-06-06	Mao, et al.	
	2	20030159143	A1	2003-06-21	Chan, Peter	
	3	20030202775	A1	2003-10-30	Junkensfeld, et al.	

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4	20040034863	A1	2004-02-19	Barrett, et al.	
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7	20040180974	A1	2004-08-19	Read, et al.	
8	20040255328	A1	2004-12-16	Baldwin, et al.	
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10	20050078757	A1	2005-04-14	Nohrden	
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12	20050081243	A1	2005-04-14	Barrett, et al.	
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15	20050154917	A1	2005-07-14	deCarmo	
16	20050172314	A1	2005-08-04	Krakora, et al.	
17	20050190781	A1	2005-09-01	Green, et al.	

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## **FOREIGN PATENT DOCUMENTS**

Examiner Initial*	Cite No	Foreign Document Number <sup>2</sup>	Country Code <sup>2</sup> j	Kind Code <sup>4</sup>	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear	TS
	1	CA2480461	CA		2003-10-16	Cisco Technology, Inc.		<input type="checkbox"/>
	2	EP0833894	EP		1995-01-11	Digital Equipment Corp		<input type="checkbox"/>
	3	EP1294193	EP		2003-03-19	Thomson Licensing SA		<input type="checkbox"/>
	4	WO0126271	WO		2001-04-12	World Multicast.com, Inc.		<input type="checkbox"/>
	5	WO0158285	WO		2001-08-02	Berberet, et al.		<input type="checkbox"/>
	6	WO02087235	WO		2002-10-31	Vividon, Inc.		<input type="checkbox"/>

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7	WC03068646	WO		2003-10-23	Thomson Licensing SA	<input type="checkbox"/>
8	WC2004062291	WO		2004-07-22	Koninklijke Philips Electronics NV	<input type="checkbox"/>
9	WO9806045	WO		1998-02-12	OLIVER Corporation LTD	<input type="checkbox"/>
10	WC9909741	WO		1999-02-25	Next Level Comm (US)	<input type="checkbox"/>

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## NON-PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T5
	1	Application Serial Number 11/010,200, Smith, et al., Filed 12/10/2004.	<input type="checkbox"/>
	2	BenAbdelkader, et al., "Combining Holistic and Parametric Approaches for Gait Recognition," Submitted to IEEE Transactions on Pattern Analysis and Machine Intelligence, December 2002, 37 pages.	<input type="checkbox"/>
	3	BenAbdelkader, et al., "EigenGait: Motion-based Recognition of People Using Image Self-similarity," Proc. Intl. on Audio and Video-based Person Authentication (AVBPA), 2001, 11 pages.	<input type="checkbox"/>
	4	BenAbdelkader, et al., "Motion-based Recognition of People in Eigengait Space," 5th International Conference on Automatic Face and Gesture Recognition, 5/20/2002, pp. 1-6.	<input type="checkbox"/>
	5	BenAbdelkader, et al., "Person Identification Using Automatic Height and Stride Estimation," IEEE International Conference on Pattern Recognition, 8/11/02-8/15/02, pp. 1-4.	<input type="checkbox"/>

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6	BenAbdelkader, et al., "Stride and Cadence as a Biometric in Automatic Person Identification and Verification," 5th International Conference on Automatic Face and Gesture Recognition, 5/20/2002, pp. 1-6	<input type="checkbox"/>
7	BenAbdelkader, et al., "View-invariant Estimation of Height and Stride for Gait Recognition," Workshop on Biometric Authentication (BiOMET), in association with ECCV 2002, 6/1/2002, 12 pages.	<input type="checkbox"/>
8	Cutler, et al., "Robust Real-Time Periodic Motion Detection, Analysis, and Applications," IEEE Transactions on Pattern Analysis and Machine Intelligence (PAMI), Vol. 22, No. 8, August 2000, pp. 781-796.	<input type="checkbox"/>
9	"Digital Headend Solutions; Tune in to Digital TV", available at << <a href="http://www.tutssystems.com/digitalheadend/solutions/index.cfm?&gt;">http://www.tutssystems.com/digitalheadend/solutions/index.cfm?&gt;</a> >, accessed on 11/03/05, 1 page.	<input type="checkbox"/>
10	Ding, et al., "Resource-Based Striping: An Efficient Striping Strategy for Video Servers Using Heterogeneous Disk-Subsystems", Multimedia Tools and Applications, Vol. 19, No. 1, Jan, 2003, pp. 29-51	<input type="checkbox"/>
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12	Gli, et al., "Simulation of a Mobility Prediction Scheme Based on Neuro-Fuzzy Theory in Mobile Computing", Simulation, July 2000, Vol. 75, No. 1, pp 6-17.	<input type="checkbox"/>
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14	Halvorsen et al., "Q-LMRP: A Buffer Muffer Management Mechanism for QoS Support in a Multimedia DBMS", IEEE 1998, pp 162-171.	<input type="checkbox"/>
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16	Hurst, et al., "MPEG Splicing: A New Standard for Television-SMPTE 312M", SMPTE Journal, November 1998, pp 978-988.	<input type="checkbox"/>

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17	"InfoValue Experts; Info Value Unveils Industry's First Video Multicasting Solution with Instant Replay", available at << <a href="http://www.infovalue.com/links/news%20room/press%20releases/1999/Press_%20First_Multicasting_with_Instanant_Replay.pdf">http://www.infovalue.com/links/news%20room/press%20releases/1999/Press_%20First_Multicasting_with_Instanant_Replay.pdf</a> >>, accessed on 11/03/05, 3 pages.	<input type="checkbox"/>
18	Kamiyama et al., "Renegotiated CBR Transmission in Interactive Video-on-Demand System", IEEE 1997, pp 12-19.	<input type="checkbox"/>
19	Lee, "Staggered Push-A Linearly Scalable Architecture for Push-Based Parallel Video Servers", IEEE Transactions on Multimedia, Vol. 4, No. 4, December 2002, pp 423-434.	<input type="checkbox"/>
20	Lo, et al., "Deploy Multimedia-on-Demand Services over ADSL Networks", PCM 2002, Lecture Notes in Computer Science, Vol. 2532, Dec 2002, pp. 295-302.	<input type="checkbox"/>
21	Lu, et al., "Experience In designing a TCP/IP based VOD system over a dedicated network", IEEE 1997, pp 262-266.	<input type="checkbox"/>
22	"MediaFLO: Introducing FLO Technology", available at << <a href="http://www.qualcomm.com/media/flo/news/pdf/flo_whitepaper.pdf">http://www.qualcomm.com/media/flo/news/pdf/flo_whitepaper.pdf</a> >>, accessed on 11/03/05, pp. 1-8.	<input type="checkbox"/>
23	"Multidimensional Database Technology", Computer, December 2001, Vol. 34, No. 12, pp 40-46.	<input type="checkbox"/>
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25	Petit, et al., "Bandwidth Resource Optimization in Video-On-Demand Network Architectures", IEEE 1994, pp 91-97.	<input type="checkbox"/>
26	"QuickTime Streaming your Media in Real Time", available at << <a href="http://www.apple.com/tw/quicktime/technologies/streaming/">http://www.apple.com/tw/quicktime/technologies/streaming/</a> >>, accessed on 11/03/05, 3 pages.	<input type="checkbox"/>
27	Song, et al., "Replica Striping for Multi-Resolution Video Servers", IDMS/PROMS 2002, Lecture Notes in Computer Science, Vol. 2515, No. 2002, pp. 300-312.	<input type="checkbox"/>



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28	Tsai, R., "An Efficient and Accurate Camera Calibration Technique for 3d Machine Vision," Proceedings of the Computer Vision and Pattern Recognition, 1986, pp. 364-374.	<input type="checkbox"/>
29	Turk, et al., "Face Recognition Using Eigenfaces," CVPR, 1991, pp. 586-591.	<input type="checkbox"/>
30	Wee, et al., "Splicing MPEG Video Streams in the Compressed Domain", IEEE 1997, pp 224-230.	<input type="checkbox"/>
31	Wolfson, et al., "Modeling Moving Objects for Location Based Services", Lectures Notes in Computer Science, 2002, Vol. 2538, pp 48-53	<input type="checkbox"/>
32	Zhang, et al., "Data Modeling of Moving Objects with GPS/GIS in Web Environment", International Conference on Communications, Circuits and Systems and West Sino Exposition Proceedings, 2002, Vol. 2 pp, 1561-1585.	<input type="checkbox"/>
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<sup>1</sup> See Kind Codes of USPTO Patent Documents at [www.USPTO.GOV](http://www.USPTO.GOV) or MPEP 901.04. <sup>2</sup> Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>3</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>4</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>5</sup> Applicant is to place a check mark here if English language translation is attached.

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**CERTIFICATION STATEMENT**

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

- ☐ That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

**OR**

- ☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

- ☐ See attached certification statement.
- ☐ Fee set forth in 37 CFR 1.17 (p) has been submitted herewith.
- ☒ None

**SIGNATURE**

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	<i>KN Saunders</i>	Date (YYYY-MM-DD)	2006-04-30
Name/Print	Keith W. Saunders	Registration Number	41462

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Serial No. .... 10/684,138  
Filing Date .... 10/10/2003  
Confirmation No. .... 1286  
Inventorship ..... Peter T. Barrett  
Applicant ..... Microsoft Corporation  
Group Art Unit ..... 2614  
Attorney's Docket No. .... MS1-1758US  
Title: Fast Channel Change

To: Commissioner of Patents and Trademarks  
PO Box 1450  
Alexandria, VA 22313-1450

From Keith W. Saunders (Tel. 509-324-9256; Fax 509-323-8979)  
Customer Number : 22801  
Lee & Hayes, PLLC  
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Spokane, WA 99201

Fees will be paid by credit card through the EFS Web; however the  
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Respectfully Submitted,

Dated: 4/30/2006

By: KW Saunders  
Keith W. Saunders  
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